

50150097  
Task ID#  
2359

4/19/08  
Amended Mining Plan  
S/015/0097  
Carnotite West Mine  
Carnotite LLC

Mr. Paul Baker;

Concerning the request for variance , item #10 on the UDOGM reclamation plan application. This is our request that Carnotite LLC not be required to cover waste dumps on the mine site with top soil prior to seeding for reclamation. The area within the 3 acres of disturbed land is 85% solid sandstone of the Salt Wash member of the Morrison formation. The other 15% is shale and clay of the Brushy Basin member of the Morrison formation. Neither member has any topsoil what so ever on them that could support vegetation. In fact there is very little vegetation at all on the mine site. All of the waste rock that will be brought to the surface during mining operations will be stacked on top of existing waste dumps. These waste dumps consist of broken sandstone with material ranging from small soil type material to rocks 15" square. There is no topsoil as such on the present waste dumps. Past reclamation of waste dumps in the Buck Master Draw area has consisted of sloping of the dumps with no topsoil covering. These reclaimed dumps have about the same type and amounts of vegetation as any other near by areas. This would indicate that the dump material itself is some of the most fertile ground out there. Many of the waste dumps in the Buck Master Draw have been there as long as 60 years and do not show any appreciable erosion or lack of comparable vegetation. This is an amendment to my mining and reclamation plan S/015/0097, in which this request for variance has been already approved. This amendment has been submitted due to our change in mining plan, which requires the use of the portal and decline of the existing #8 (Dino) mine as the primary access into the mines. The #9 portal and decline will now be used as the second emergency exit from the mine and will have no surface disturbances. It is of course the same group of mining claims and the same mine portals as described in our original plan, but places all of the disturbed area around the portal of #8 in sec 28 T21S R14E. I hope this is not a great problem, but it was a necessary change in our plan. The proposed disturbed area around the mine site has been marked as required by UDOGM with 4 steel fence post, one in each corner. The post are labeled and have blue and yellow surveyor tape on them. If you need to contact Carnotite LLC and I am not available, I authorize UDOGM to talk to my wife Larette D. Thompson as she is a partner and also owns 3 of the mining claims involved.

Thank You,

Ted Thompson  
Carnotite LLC  
Salt Lake City, UT 84106  
801-486-8345

RECEIVED  
APR 21 2008  
DIV. OF OIL, GAS & MINING

### **Mining Plan For Carnotite West Mine**

COMPANY:  
CARNOTITE LLC  
FED MINE ID #42-02493  
TED THOMPSON  
775E CLAYBOURNE AVE.  
SALT LAKE CITY, UT 84106  
801-486-8345

CARNOTITE WEST MINE:  
SPOTTED WOLF CANYON QUAD  
BUCK MASTER DRAW  
SW 1/4 SEC 22 & NW 1/4 SEC 27  
NE 1/4 SEC 28 T21S R14E  
2 1/2 miles N OF EXIT #147 I-70

#### **THE MINE;**

The mine decline and portal involved is a pre-existing Uranium mine in the San Rafael mining district, Emery county, Utah. From Green River, Utah travel 12 miles West on I-70, then 2 1/2 miles North on county road EM1029. The decline is on our 8 Ball #3 mining claim. It enters the existing mines 1500 feet west of the county road. There is a 4' high white PVC claim marker 300' north of the turnout to the mine. Carnotite LLC owns a block of 5 mining claims, 8 Ball #1 UMC #375542 through 8 Ball #5 UMC #375546. An existing decline located on 8 Ball #5 will be used for ventilation and a second emergency exit from the mines. This mining area is known locally as Four Corners and has been mined extensively for Uranium and Vanadium for over 100 years. The Uranium ore is found in the Salt Wash member of the Morrison formation.

#### **SURFACE FACILITIES:**

The mining to be done by Carnotite LLC will utilize the exiting county road EM1029 for access and all surface disturbances will be confined to areas that have been affected by past mining activities. Carnotite LLC plans to contain all surface use within an area of 500 feet X 400 feet. This area surrounds the mine portal. Two acres of that total are rock out-crops which will not be used or disturbed in any way. This makes a total of 3 acres of surface use, which will then require reclamation.

Surface facilities as listed below are shown on an enclosed map.

1. There is an office area, with employee parking and two small trailers. One for the mine office and one for the miners change room. The tires will remain on both of the trailers for the life of the project. Two portable toilets will be next to the trailers.
2. Two 1000 gallon water tanks for culinary water with a pipeline to the trailers.
3. An area 20 feet X 30 feet in size for a 1,000 gallon fuel tank. The fuel tank will have a fabric lined containment basin constructed under it. A 750cfs generator and a compressor are next to the fuel tank.
4. A shipping area 100 feet by 200 feet west of the mine portal to be used for temporary storage and loading of the Uranium ore.
5. The explosive magazine is to the Northwest of the portal out of sight from the road.
6. An area in the SW corner, not to exceed 1 acre will be for waste rock dumps. There are currently 2 existing waste dumps, and all three will be joined into one dump.

#### MINING OPERATION:

Underground Uranium mining will start when all required permits have been obtained. The total area of surface disturbance will be less than 3 acres. Three miners and one surface employee will start mining. Eventually five miners, the surface hand and one mechanic may be hired. The mining will be underground mining using the room and pillar method. Ore will be mined by drilling ore headings using air drills with jack legs. The drill holes will be loaded with primers, dynamite and ANFO. All detonators will be NONEL millisecond delays. After blasting, the Uranium ore will be mucked out using conventional underground loaders and hauled to the surface in mine trucks. Back control will be with 6 foot split set rock bolts installed through metal plates and mats. When needed for safety, chain link fencing or roof screening may also be used.

The existing decline on 8 Ball #3 will be rehabilitated and used for access to the underground mining area. Existing underground workings will be expanded on and ore headings will be developed from them. An estimated 20,000 tons of ore will be mined during a 3 to 5 year period. The ore will all be loaded on semi end dump trucks and then transported for sale at the Uranium mill at White Mesa, Utah. Approximately 30,000 tons of waste rock will be produced at the same time and permanently stored on site. The majority of the waste rock will be back filled into abandoned underground headings. With 15,000 tons placed on the existing waste dump area. One of our first projects will connect underground mine areas of 8 Ball #5 and #4 to those of 8 Ball #1, #2 and #3 for improved natural ventilation. This will also provide a second emergency exit from the mine, as required by MSHA through an existing portal on 8 Ball #5 claim.

Ventilation will be from a 36" fan mounted at the portal of 8 Ball #3. Ventilation will be carried to the mine working faces with a 36" vent bag. If found to be open, exhaust air from the mine will exit from a calyx pipe located on 8 Ball #2. Radon gas levels in all working areas will be monitored bi-weekly in accordance to MSHA regulations. The miner's radon exposure records will be kept in the mine office. It will be Carnotite LLC's policy that no trash will be allowed to accumulate either underground or on the surface of the mine site.

Equipment to be used for mining operations;

2 – Small camper trailers –	on the surface
2 – 1000 gallon water tanks	“ “
1 – 2yd Track loader	“ “
1- 750cfs Compressor	“ “
1 – Generator	“ “
1 – 36" Fan	“ “
1 – Explosive magazine	“ “
2 – Portable toilets	“ “
2 – Front loaders	underground
1- Mine truck	“ “
2 – Rock drills w/jack legs	“ “
1 – 36" Fan	“ “

#### RECLAMATION:

Reclamation of the affected surface area will be done at the end of mining operations using the mining equipment already on site. The reclamation will consist of three phases; 1 - Removing the 2 small office trailers and 2 water tanks, all of which can be towed with pickup trucks. The cost of removing the trailers and water tanks will be less than \$200. Removing the compressor, generator, potable toilets, track loader, explosive magazine and the fuel tank. All of these items are rentals and will be removed by the rental companies, as specified in the rental agreements. Cost of removal of rental items \$0. Removal of underground mine truck and fans using pickup truck and fifth wheel trailer \$1,500.

2 - The permanent closing of the mine portal and waste dumps. This will be done by back filling, contouring and seeding of the affected area. A request for variance due to the lack of topsoil on the disturbed area has been submitted. 80% of the disturbed area is composed of solid sandstone of the Sand Wash member of the Morrison formation and the remaining 20% is shale and clay of the Brushy basin member of the Morrison formation. Both formations lack top soil of any kind for covering the waste dumps. Past reclamation practice in the Buck Master draw area has consisted of sloping only of waste rock dumps.

1. The 2 office trailers will be removed from the site, then the water tanks. After the removal of the generator, compressor and diesel fuel tanks, the ½ acre site will be dressed before being seeded with BLM approved range land seed.
2. The mine portal will be closed by covering it deeply with waste material from existing waste dumps shown on the map. The associated existing Emery County access road to the site will not be reclaimed or seeded. 2 ½ acres of the disturbed area is solid rock and will not require seeding. The total cost of BLM approved range land seed for the 3 acres of surface disturbance is \$450.
3. During the mining operation considerable waste material will be generated and placed on surface waste dumps. Every effort will be made by Carnotite LLC to backfill as much waste rock as possible in abandoned underground areas to reduce the size of surface dumps. At the end of mining operations, the dumps will be contoured using the mining equipment on the site. As there is no natural top soil on the existing dump areas and none available locally, a variance has been applied for to allow seeding directly on the waste materials contained in the dumps. Seeding of the contoured waste dumps will be the last phase of site reclamation. The natural drainage of the 5 acre mine site will not be altered during mining or reclamation and will require only minimal attention. It will take one track loader working 40 hours to accomplish all back filling, contouring and preparation for seeding. Estimated cost of back filling the mine decline, contouring of the wastes rock dumps and dressing the 2 ½ acres to be seeded is \$10,000.
4. The # 9 portal used for emergency exit will be closed with a rock wall cost \$700.

**TOTAL COST OF RECLAMATION:**

Removal of two small office trailers and two small water tanks	\$ 200.
Removal of rental items by rental companies	\$ 0.
Cost of BLM range land seed for 3 acres	\$ 450.
Cost of back filling, contouring and seed- bed preparation	\$10,000.
Cost of rock wall #9 portal	\$ 700.
Cost of removing mine truck, fans and rock drills (one load)	\$ 1,500.
Total cost of site reclamation	\$12,850.

**ATTACHMENTS:**

Request for Variance

USGS Map showing vicinity of the mine site

Map showing existing underground workings (black) and proposed underground workings (red)

Two drawings showing access roads and routes used by ore trucks to mill.

Drawing showing mine site and surface disturbances.



554,000

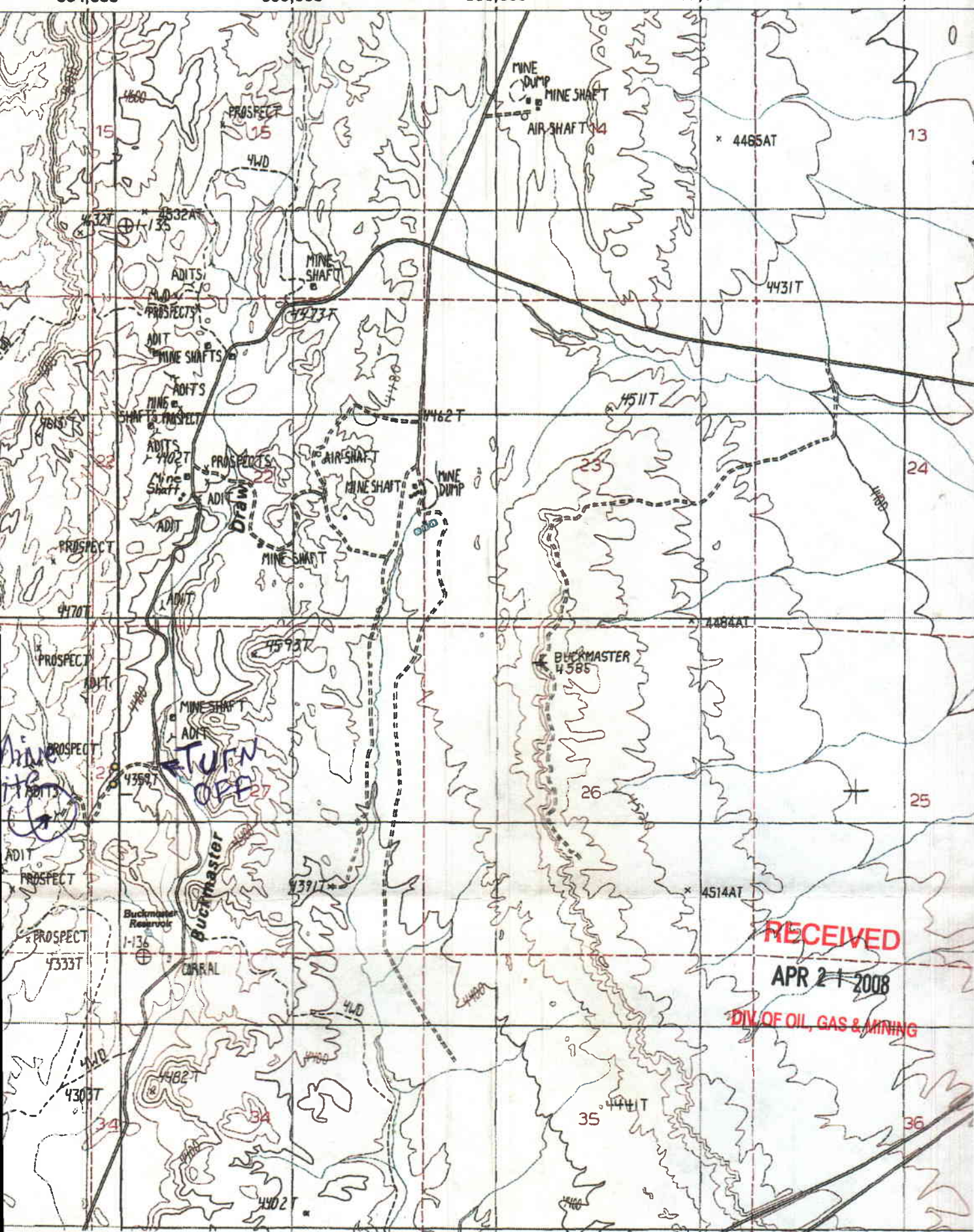
555,000

556,000

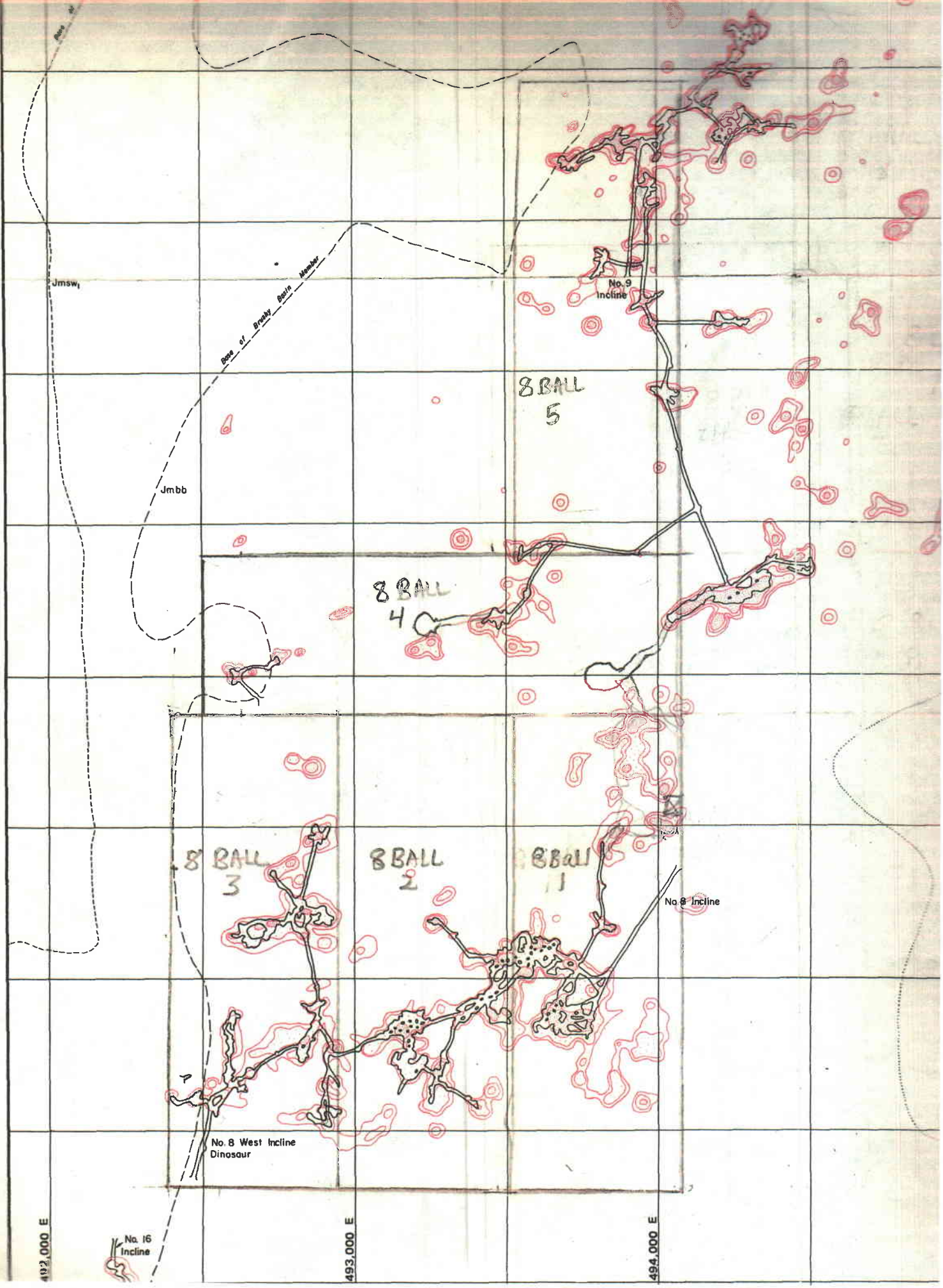
557,000

558,000

1







Grand  
County

Emery  
County

Green  
River  
Utah



Utah Hwy 6

1 mile

Primary access EM 1029  
12 mi

12 miles TO  
INTERSTATE 70

alternate access

alternate  
access

Exit  
147

UT 24

mine  
Site

map 1



• Carnotite West Mine  
Section 28 T21S R14E  
Disturbed Area 3 acres

